

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
Tab settings					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Stimssoft, Inc.; Richard B. North, M.D.; Kim R. Fowler; Jeffrey M. Sieracki; and David D. Brigham			2. Name and address of receiving party(ies) Name: <u>MEDTRONIC, INC.</u> Internal Address: <u>M.S. LC340</u> <u>Technology Center 2600</u>  Street Address: <u>710 Medtronic Parkway NE</u>  City: <u>Minneapolis</u> State: <u>MN</u> Zip: <u>55432</u>		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____					
Execution Date: <u>04/30/03</u>					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) _____ (see attached Assignment & Schedule) B. Patent No.(s) _____ (see attached Assignment & Schedule) Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Stephen W. Bauer</u> Internal Address: <u>M.S. LC340</u>  Street Address: <u>710 Medtronic Parkway NE</u>  City: <u>Minneapolis</u> State: <u>MN</u> Zip: <u>55432</u>			6. Total number of applications and patents involved: <u>10</u> 7. Total fee (37 CFR 3.41).....\$ <u>400.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>13-2546</u>		
DO NOT USE THIS SPACE					
9. Signature.  <u>Stephen W. Bauer</u> <u>May 27, 2003</u> Name of Person Signing Signature Date					
Total number of pages including cover sheet, attachments, and documents: <u>5</u>					

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20251

700031509

PATENT  
REEL: 013678 FRAME: 0649

## ASSIGNMENT

This Agreement is by and between Stimsoft, Inc., a Maryland corporation having an office and place of business at 1000 Century Plaza, Suite 313, 10630 Little Patuxent Parkway, Columbia, Maryland 21044 ("Stimsoft"), and Richard B. North, M.D., Kim R. Fowler, Jeffrey M. Sieracki and David B. Brigham ("Inventors") (Stimsoft and the Inventors collectively constituting the "Assignors"), and MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway, Minneapolis, Minnesota 55432-5604 ("Medtronic").

Stimsoft represents and warrants that it owns the entire right, title and interest in and to all the patents and patent applications identified in the attached Schedule 3.1.2-1 free and clear of any liens, licenses or other encumbrance.

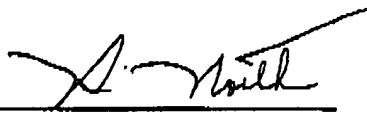
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignors hereby sell and assign to Medtronic, its successors and assigns, any and all right title and interest the Assignors may have in and to the patents and patent applications identified in the attached Schedule 3.1.2-1, the same to be held and enjoyed by Medtronic for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which the patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including without limitation the right to enforce the patent and collect damages for past or future infringement.

For the consideration aforesaid, the Assignors hereby individually covenants and agrees to and with Medtronic, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of the is lawful and desirable, I, or my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid patents, or for the reissue or extension of the same, without charge to Medtronic, its successors or assigns, but at Medtronic's expense.

ACCORDINGLY, each of the parties has caused this Agreement to be executed, in the manner appropriate for each, as of the date indicated.

Address:

Stimsoft, Inc.  
Richard B. North, M.D.

  
Richard B. North, M.D.  
Individually and as President of Stimsoft, Inc.

STATE OF MARYLAND

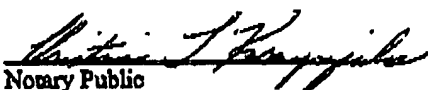
ss.

COUNTY OF

On this 30<sup>th</sup> day of April, 2003, before me personally appeared Richard B. North, M.D., to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

CHRISTINE T. KARAYINOPULOS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires June 13, 2005

  
Notary Public

PATENT  
REEL: 013678 FRAME: 0650

Address:

Kim R. Fowler

STATE OF MARYLAND

ss.

COUNTY OF

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared Kim R. Fowler, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.>

< IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.>

&lt;

Notary Public

Address:

Jeffrey M. Sieracki

STATE OF MARYLAND

ss.

COUNTY OF

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared Jeffrey M. Sieracki, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Notary Public

Address:

David D. Brigham  
David D. Brigham

STATE OF MARYLAND

ss.

COUNTY OF

On this 30<sup>th</sup> day of April, 2003, before me personally appeared David B. Brigham, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Christine T. Karayinopoulos  
Notary Public

CHRISTINE T. KARAYINOPOULOS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires June 19, 2006

Address:

Kim R. Fowler  
Kim R. Fowler

STATE OF MARYLAND

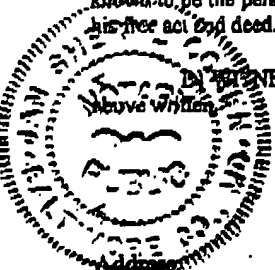
COUNTY OF

Baltimore

ss.

On this 30th day of April, 2003, before me personally appeared Kim R. Fowler, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year



Jeffrey M. Sieracki  
Notary Public

Jeffrey M. Sieracki  
Notary Public

STATE OF MARYLAND

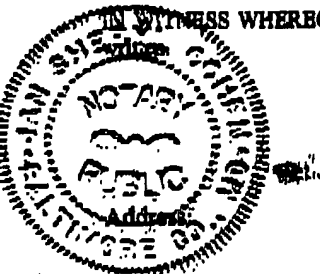
COUNTY OF

Baltimore

ss.

On this 30th day of April, 2003, before me personally appeared Jeffrey M. Sieracki, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above



Jeffrey M. Sieracki  
Notary Public

David B. Brigham  
Notary Public

STATE OF MARYLAND

COUNTY OF

ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2003, before me personally appeared David B. Brigham, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

\_\_\_\_\_  
Notary Public

**Schedule 3.1.2-1  
Stimsoft Patents and Patent Applications**

Type	Serial No.	Filed	Patent No.	Patent Issued	Inventors	Assignee Reel/Frame	Title
Utility	09/408,129	9/29/99	6,308,102	10/23/01	Jeffrey M. Sieracki, Richard B. North, Kim R. Fowler	Stimsoft, 10297/495	Inc. Patient Interactive Neurostimulation System and Method
Utility	09/732,759	12/11/00			Richard B. North, Jeffrey M. Sieracki, Kim R. Fowler, Lon H. Holland	Stimsoft, 11359/942	Inc. Patient Interactive Neurostimulation System and Method
Utility	09/932,957	8/21/01			Samuel J. Brewer	Stimsoft, 12096/480	Inc. Transmitter System for Wireless Communications with Implanted Device
Provisional	60/422,259	10/31/02			Richard B. North, Jeffrey M. Sieracki		Fail-safe Programming of Independently-Operative Patient Implants
Provisional	60/422,260	10/31/02			Richard B. North, Jeffrey M. Sieracki		Method and System for Rapid and Intuitive Manipulation of Electrical Stimulation Regions in Spinal Cord
Provisional	60/422,261	10/31/02			Richard B. North, Jeffrey M. Sieracki		Method for Indication of Body Regions Using a Dynamic, Three-Dimensional Template with Application to Pain and Paralysis Mapping
Provisional	60/422,264	10/31/02			Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki		Patient Interactive Programming of Implanted Neurostimulators with a Distributed System for Storage, Analysis and Retrieval of Data
Provisional	60/422,263	10/31/02			Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki		Storage and Retrieval of Multiple Sets of Neurostimulator Prescriptions in an External Transmitter for Programming Implanted Neurostimulators
Provisional	60/422,262	10/31/02			Richard B. North, Jeffrey M. Sieracki		Method for Compact Description and Generation of Combination Trial List in a Multi-State Array and Related Control Systems for Use in Neurostimulation
Provisional	60/448,457	2/21/03			Richard B. North, Jeffrey M. Sieracki, David B. Brigham		Implanted Stimulator Adjustment to Maximize Battery Longevity Using Computerized Programming

RECORDED: 05/27/2003

**PATENT**  
REEL: 013678 FRAME: 0653